



# Sell series (60-1800Ton)

The benchmark for high-performance injection moulding machine [Servo-driven]



Welltec Machinery Ltd



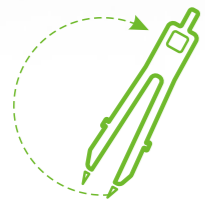
Version: Sell-202409W



www.welltec.com.hk



**New generation upgrades**



Opening stroke  
increased by up to  
**15%**



Ejector stroke  
increased by up to  
**20%**



Mould thickness  
increased by up to  
**15%**



Max. daylight  
increased by up to  
**55%**



Ejector force  
increased by up to  
**40%**

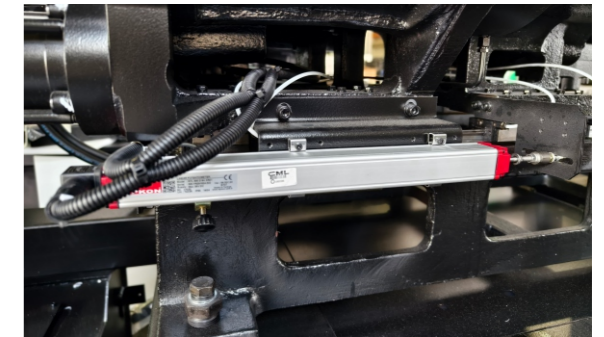
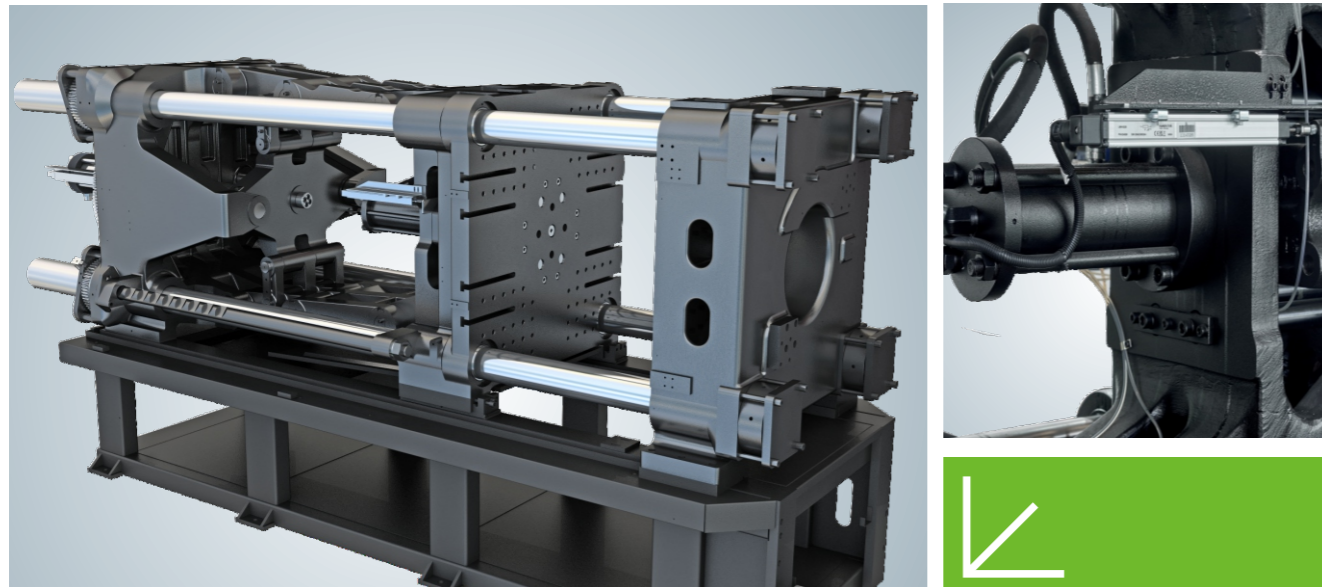
**Features**

- **30%** higher energy saving than using traditional variable pump
- Stable and smooth movement supported by AC servo motor
- Effective reduction of energy consumption due to reduced oil and cooling water attained by hydraulic system
- Being the first in the industry attaining China national safety standard **GB / T22530-2022** ( whole series accredited)



# SeIII series (60-1800Ton)

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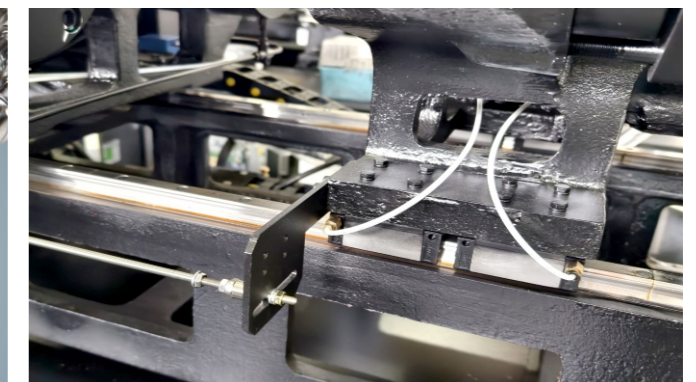
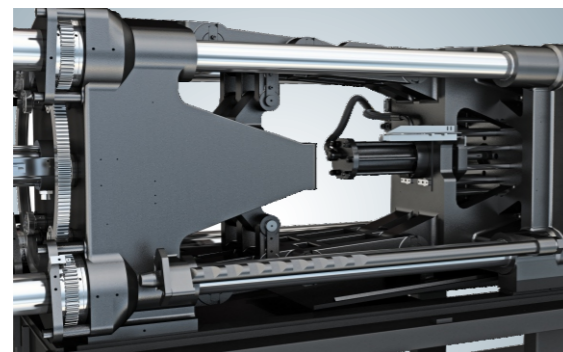
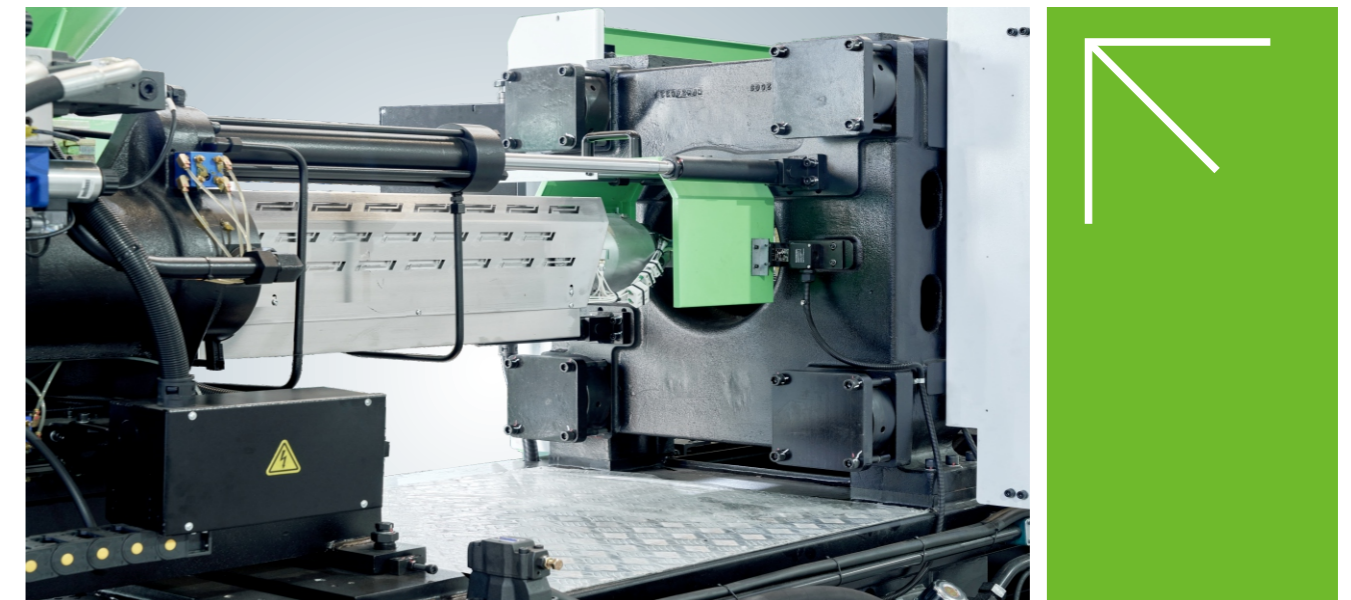


## Injection Unit

- Newly optimised injection unit design to enable various production needs
- Diagonally located cylinders to facilitate better stress distribution
- Linear guide rail significantly reduces mechanical wear and tear (90-850SeIII)

## Clamping Unit

- Extra durability achieved through optimised clamping structure
- Optimised platen design to disperse stress
- Accurate pause and smooth and speedy movement supported by strengthened toggle
- High pressure lubrication system adopted in clamping unit to support machine protection during high speed production
- The toggle's special heat-treated steel case enables higher wear resistance
- High-rigidity frame supports smooth movement

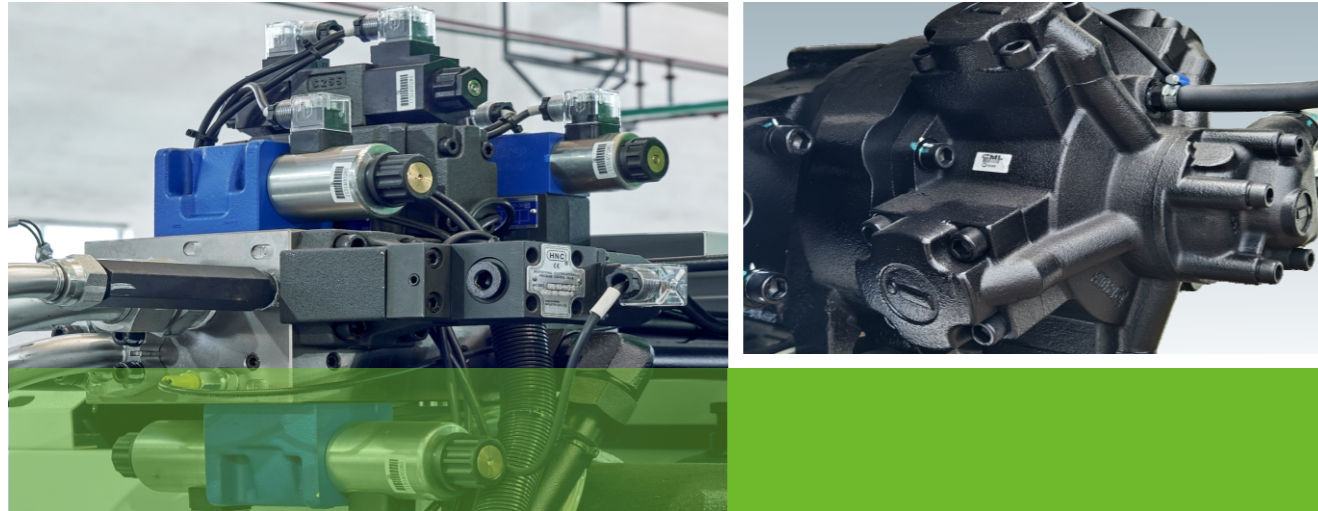




## SeIII series (60-1800Ton)

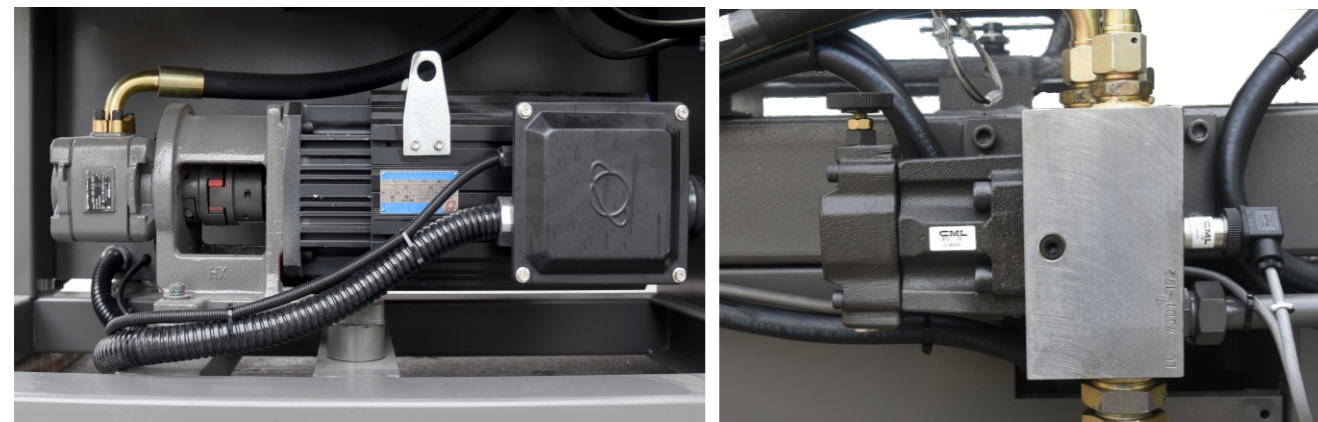
The benchmark for high-performance injection moulding machine

WELLTEC



## Hydraulic System

- Efficient and stable servo hydraulic system
- Minimised energy loss attained through the advanced hydraulic pipeline design
- Low-noise
- Advanced servo pump improves machine performance



## S09 control system

(60-850T)

### Software & Functions

- High performance European B&R control system
- 10.4" TFT colour LCD display Multi-language selection
- Parameter data statistics for quality control
- Automatic control of temperature parameter by PID



## AS10 control system

(1000-1800T)

### Software & Functions

- Special control system for high precision injection molding machine, with fast response and better machine control performance
- 10.4" TFT color touchscreen display. 9 main function screen, convenient for operation and maintenance
- Closed-loop control for mold open/close, injection, plasticizing and ejector to ensure the machine to run smoothly and accurately



Facilitates real-time monitoring, remote diagnosis and smart factory management (optional)



# SeIII series (60-1800Ton)

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## Standard and Optional Features

standard ● optional ○

### Injection Unit

|   |   |
|---|---|
| Nitrided screw  | ● |
| Movable hopper (90-320T)  | ● |
| Fixed hopper (380-660T)   | ● |
| Barrel protective cover   | ● |
| Injection / holding pressure/ plasticising setting  | ● |
| Screw cold- start prevention system   | ● |
| Automatic heat preservation and heating device  | ● |
| Anti-drooling function  | ● |
| Automatic purging system  | ● |
| Automatic injection failure detection   | ● |
| Purge guard   | ● |
| Reduced/ enlarged ONE STEP injection unit   | ○ |
| Bimetallic Screw and Barrel   | ○ |
| Extended nozzle   | ○ |
| Spring-loaded nozzle  | ○ |
| Hydraulic/ Pneumatic shut-off nozzle  | ○ |
| Material loading platform   | ○ |
| Electric plasticising   | ○ |
| Linear transducer for injection carriage  | ○ |
| Wide varieties of screw and barrels for engineering, recycled and glass fiber composed resins | ○ |

### Clamping Unit

|  |   |
|--|---|
| High pressure centralised lubrication system | ● |
| Hydraulic and electrical safety device       | ● |
| Multi-function ejector control               | ● |
| Fast mould-close function (660-1800T)        | ● |
| Auto mould height adjustment                 | ● |
| Mould ejector backward device                | ● |
| Increase mould thickness range               | ○ |
| SPI mounting hole platens                    | ○ |
| Quick mould change system (T-slot necessary) | ○ |
| Increase ejector force                       | ○ |
| Increase ejector stroke                      | ○ |
| Retractable tie bar                          | ○ |
| Mould hanger                                 | ○ |

### Hydraulic Unit

|   |   |
|---|---|
| Closed-loop servo control of pressure and flow rate | ● |
| Adjustable back pressure control                    | ● |
| Y- strainer for water cooling                       | ● |
| Special servo motor and servo drive                 | ● |
| High-performance servo pump                         | ● |
| Core pulling ( fixed / movable platen)              | ○ |
| Unscrew device with motor                           | ○ |

\* We reserve the right for adjustment due to actual supply and modifications

|   |   |
|---|---|
| Oil level sensor and alarm                          | ○ |
| Plasticising during mould opening                   | ○ |
| Ejector on fly                                      | ○ |
| Injection accumulator                               | ○ |
| Proportional direction valves for clamping          | ○ |
| Hydraulic / Pneumatic sequential injection          | ○ |
| Enlarged motor & pump (hydraulic circuit)           | ○ |
| Solenoid valve for oil cooler to control water flow | ○ |
| Extra air blast                                     | ○ |

### Control Unit and Electric Components

|   |   |
|---|---|
| TFT colour LCD display                        | ● |
| B&R control system                            | ● |
| Multi-lingual display                         | ● |
| PID temperature control                       | ● |
| Heating control contactor                     | ● |
| Mould data locking function                   | ● |
| Speed limitation device                       | ● |
| Fault alarm                                   | ● |
| SPC analysis                                  | ● |
| Robot interface                               | ● |
| Individual power plug of different voltages   | ○ |
| Voltage stabiliser                            | ○ |
| Power meter                                   | ○ |
| Solid state relays                            | ○ |
| Hot runner control                            | ○ |
| Ceramic / Infrared heater bands               | ○ |
| Robot interface ( EUROMAP 12/ 67)             | ○ |
| Lighting inside electric cabinet              | ○ |
| Electric unscrew ( Device interface)          | ○ |
| Air conditioner for electric cabinet          | ○ |
| Circuits check for heater bands               | ○ |
| iSee software - intelligent management system | ○ |

### Others

|  |   |
|--|---|
| Water flow regulator                       | ○ |
| Widened guard door                         | ○ |
| Full guard cover ( for top of tail platen) | ○ |
| Sliding top cover                          | ○ |
| Electric automatic guard door              | ○ |
| Non-standard machine colour                | ○ |

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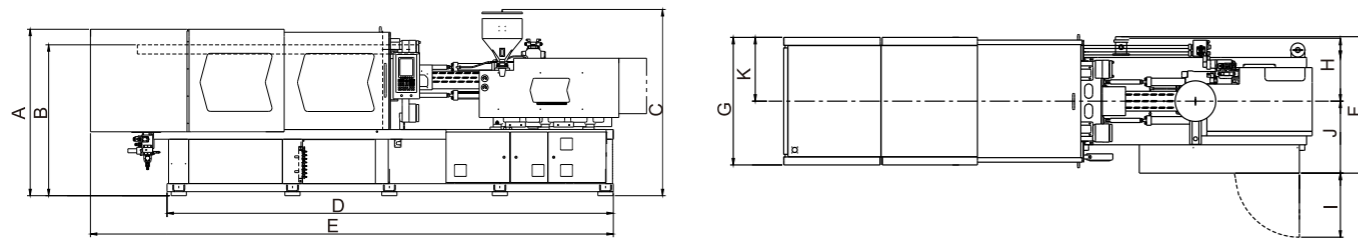
## Specifications

| ITEM                       | UNIT                 | 60SeIII        |         | 90SeIII  |          | 130SeIII      |      | 160SeIII |      |               |      |
|----------------------------|----------------------|----------------|---------|----------|----------|---------------|------|----------|------|---------------|------|
|                            |                      | 600-180        | 900-312 | 1300-433 | 1600-629 |               |      |          |      |               |      |
| <b>Injection unit</b>      |                      |                |         |          |          |               |      |          |      |               |      |
| Screw diameter             | mm                   | 25             | 30      | 35       | 40       | 35            | 40   | 45       | 40   | 45            | 50   |
| Theoretical shot volume    | cc                   | 69             | 124     | 168      | 220      | 192           | 251  | 318      | 283  | 358           | 442  |
| Shot weight (PS)           | g                    | 63             | 113     | 153      | 200      | 175           | 229  | 289      | 257  | 326           | 402  |
| Shot weight (PS)           | oz                   | 2.2            | 4.0     | 5.4      | 7.1      | 6.2           | 8.1  | 10.2     | 9.1  | 11.5          | 14.2 |
| Length/diameter ratio      | L/D                  | 22             | 24      | 20.6     | 18       | 23.4          | 20.5 | 18.2     | 22.5 | 20            | 18   |
| Injection pressure         | MPa                  | 261            | 254     | 186      | 143      | 225           | 172  | 136      | 223  | 176           | 142  |
| Injection rate             | cm <sup>3</sup> /sec | 78             | 83      | 113      | 147      | 93            | 122  | 154      | 147  | 187           | 230  |
| Injection stroke           | mm                   | 140            | 175     |          |          | 200           |      |          |      | 225           |      |
| Max. screw speed           | rpm                  | 300            | 237     |          |          | 205           |      |          |      | 274           |      |
| Plasticising capacity (PS) | g/s                  | 7.4            | 11.2    | 12.4     | 18.2     | 11.9          | 16.2 | 20.0     | 23.2 | 30.0          | 33.6 |
| Injection unit force       | Ton                  | 3.4            | 5.7     |          |          | 5.7           |      |          |      | 5.7           |      |
| Carriage stroke            | mm                   | 255            | 230     |          |          | 300           |      |          |      | 320           |      |
| <b>Clamping unit</b>       |                      |                |         |          |          |               |      |          |      |               |      |
| Clamping force             | Ton                  | 60             | 90      |          |          | 130           |      |          |      | 160           |      |
| Max. daylight              | mm                   | 740            | 740     |          |          | 880           |      |          |      | 1000          |      |
| Clamping stroke            | mm                   | 360            | 360     |          |          | 430           |      |          |      | 480           |      |
| Distance btwn. tie bars    | mm                   | 360x360        | 360x360 |          |          | 410x410       |      |          |      | 470x470       |      |
| Min. mould dimension       | mm                   | 250x250        | 250x250 |          |          | 280x280       |      |          |      | 320x320       |      |
| Mould thickness range      | mm                   | 120-380        | 120-380 |          |          | 145-450       |      |          |      | 150-520       |      |
| Ejector force              | Ton                  | 4.1            | 4.1     |          |          | 4.1           |      |          |      | 7.7           |      |
| Ejector stroke             | mm                   | 100            | 100     |          |          | 120           |      |          |      | 160           |      |
| No. of ejector pins        | unit                 | 5              | 5       |          |          | 5             |      |          |      | 5             |      |
| <b>Power unit</b>          |                      |                |         |          |          |               |      |          |      |               |      |
| Max. motor power           | kW                   | 13.4           | 13.4    |          |          | 13.4          |      |          |      | 16.4          |      |
| System pressure            | MPa                  | 17.5           | 17.5    |          |          | 17.5          |      |          |      | 17.5          |      |
| Hydraulic pump capacity    | L/min                | 72             | 72      |          |          | 72            |      |          |      | 112.5         |      |
| No. of heating zones       | unit                 | 3+1+1          | 3+1+1   |          |          | 3+1+1         |      |          |      | 4+1+1         |      |
| Heating power              | kW                   | 6.02           | 7.41    |          |          | 9.3           |      |          |      | 11.48         |      |
| Total power                | kW                   | 20.42          | 21.81   |          |          | 23.7          |      |          |      | 28.88         |      |
| Total current              | A                    | 27.9           | 29.8    |          |          | 32.4          |      |          |      | 39.5          |      |
| <b>General</b>             |                      |                |         |          |          |               |      |          |      |               |      |
| Machine weight             | Ton                  | 3.1            | 3.27    |          |          | 4.16          |      |          |      | 5.68          |      |
| Oil filling capacity       | L                    | 200            | 200     |          |          | 200           |      |          |      | 280           |      |
| Machine dimensions (L*W*H) | m                    | 4.22X1.15X1.96 |         |          |          | 4.59X1.2X1.94 |      |          |      | 5.21X1.3X2.05 |      |

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## Machine Dimensions

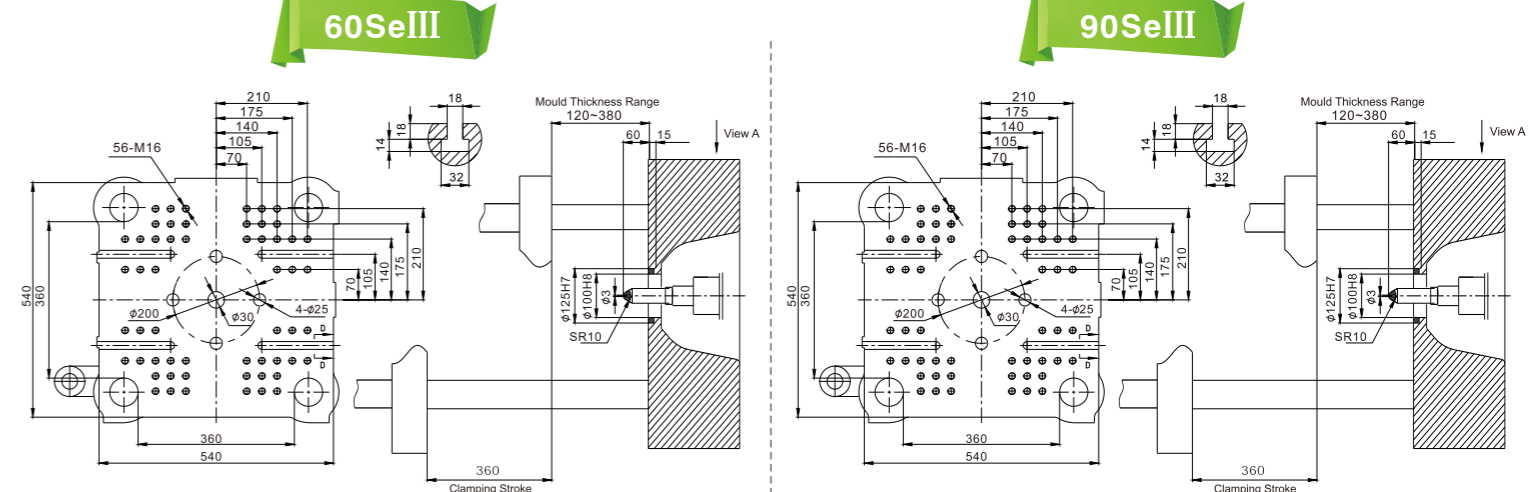
### 60SeIII-160SeIII



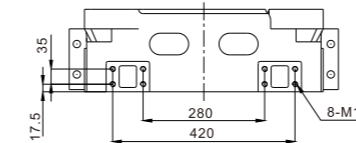
| Model    | A    | B    | C    | D    | E    | F    | G    | H   | I   | J   | K     |
|----------|------|------|------|------|------|------|------|-----|-----|-----|-------|
| 60SeIII  | 1615 | 1400 | 1963 | 3560 | 4220 | 1054 | 1152 | 625 | 800 | 635 | 576   |
| 90SeIII  | 1615 | 1400 | 1963 | 3560 | 4220 | 1054 | 1152 | 625 | 800 | 635 | 576   |
| 130SeIII | 1700 | 1486 | 1936 | 3878 | 4586 | 1104 | 1203 | 650 | 800 | 660 | 601.5 |
| 160SeIII | 1758 | 1567 | 2050 | 4513 | 5215 | 1349 | 1302 | 717 | 800 | 789 | 651   |

Remark: C-hopper height for reference only

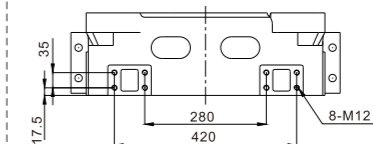
## Platen/Nozzle Dimensions



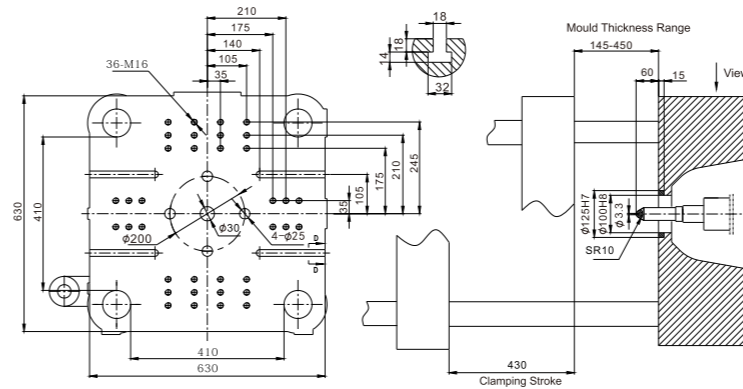
hole pattern for robot/sprue picker on fixed platen (Euromap 18-E6)



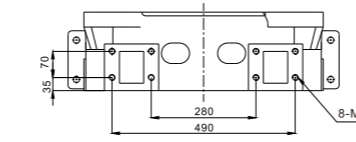
hole pattern for robot/sprue picker on fixed platen (Euromap 18-E6)



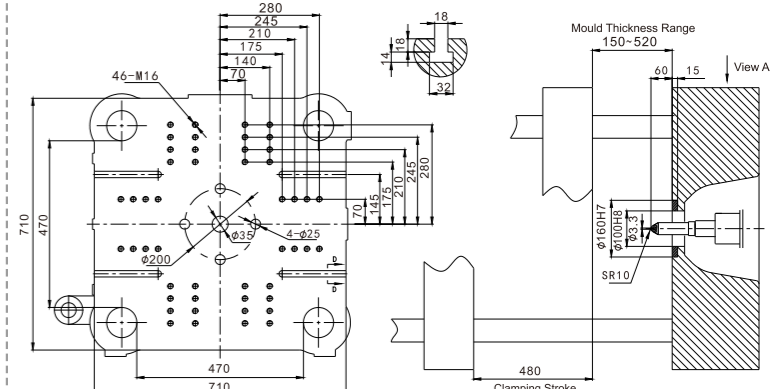
### 130SeIII



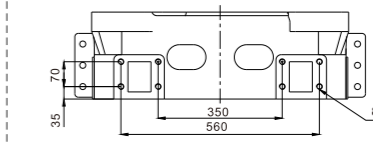
hole pattern for robot/sprue picker on fixed platen (Euromap 18-E7)



### 160SeIII



hole pattern for robot/sprue picker on fixed platen (Euromap 18-E8)





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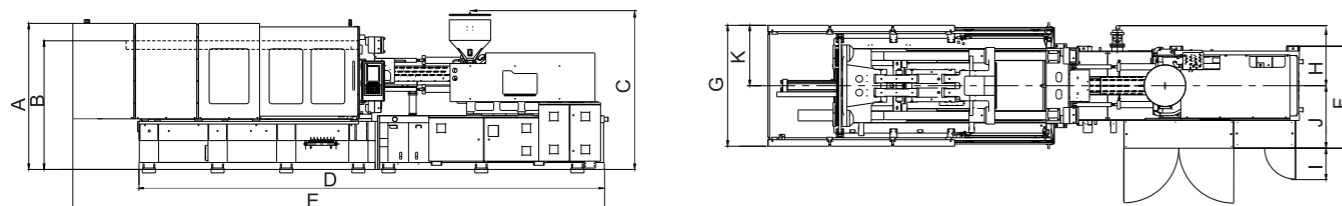
## Specifications

| ITEM                       | UNIT                 | 200SeIII     |           | 260SeIII       |           | 320SeIII     |      | 400SeIII       |      |      |      |      |       |
|----------------------------|----------------------|--------------|-----------|----------------|-----------|--------------|------|----------------|------|------|------|------|-------|
|                            |                      | 2000-871     | 2600-1507 | 3200-1930      | 4000-2868 |              |      |                |      |      |      |      |       |
| <b>Injection unit</b>      |                      |              |           |                |           |              |      |                |      |      |      |      |       |
| Screw diameter             | mm                   | 45           | 50        | 60             | 55        | 60           | 70   | 60             | 65   | 75   | 65   | 75   | 85    |
| Theoretical shot volume    | cc                   | 398          | 491       | 707            | 713       | 848          | 1155 | 919            | 1078 | 1436 | 1244 | 1657 | 2128  |
| Shot weight (PS)           | g                    | 362          | 447       | 643            | 649       | 772          | 1051 | 836            | 981  | 1307 | 1132 | 1508 | 1936  |
| Shot weight (PS)           | oz                   | 12.8         | 15.8      | 22.7           | 22.9      | 27.3         | 37.1 | 29.5           | 34.7 | 46.2 | 40.0 | 53.3 | 68.4  |
| Length/diameter ratio      | L/D                  | 24           | 21.6      | 18             | 22.9      | 21           | 18   | 22.5           | 20.8 | 18   | 23.9 | 20.7 | 18.3  |
| Injection pressure         | MPa                  | 219          | 177       | 123            | 211       | 178          | 131  | 210            | 179  | 134  | 231  | 173  | 135   |
| Injection rate             | cm <sup>3</sup> /sec | 150          | 185       | 266            | 237       | 282          | 384  | 306            | 359  | 477  | 348  | 463  | 595   |
| Injection stroke           | mm                   | 250          |           | 300            |           | 325          |      | 375            |      |      |      |      |       |
| Max. screw speed           | rpm                  | 185          |           | 215            |           | 175          |      | 224            |      | 196  |      |      |       |
| Plasticising capacity (PS) | g/s                  | 22.5         | 28.0      | 34.2           | 39.6      | 58.3         | 52.9 | 49.3           | 55.4 | 77.9 | 66.8 | 89.7 | 116.0 |
| Injection unit force       | Ton                  | 9.1          |           | 9.1            |           | 9.1          |      | 12             |      |      |      |      |       |
| Carriage stroke            | mm                   | 350          |           | 400            |           | 400          |      | 435            |      |      |      |      |       |
| <b>Clamping unit</b>       |                      |              |           |                |           |              |      |                |      |      |      |      |       |
| Clamping force             | Ton                  | 200          |           | 260            |           | 320          |      | 400            |      |      |      |      |       |
| Max. daylight              | mm                   | 1090         |           | 1210           |           | 1400         |      | 1530           |      |      |      |      |       |
| Clamping stroke            | mm                   | 540          |           | 600            |           | 700          |      | 780            |      |      |      |      |       |
| Distance btwn. tie bars    | mm                   | 535x535      |           | 580x580        |           | 680x680      |      | 740x740        |      |      |      |      |       |
| Min. mould dimension       | mm                   | 370x370      |           | 400x400        |           | 470x470      |      | 520x520        |      |      |      |      |       |
| Mould thickness range      | mm                   | 175-550      |           | 195-610        |           | 250-700      |      | 250-750        |      |      |      |      |       |
| Ejector force              | Ton                  | 9.9          |           | 11.1           |           | 11.1         |      | 16.6           |      |      |      |      |       |
| Ejector stroke             | mm                   | 170          |           | 195            |           | 200          |      | 210            |      |      |      |      |       |
| No. of ejector pins        | unit                 | 9            |           | 13             |           | 13           |      | 13             |      |      |      |      |       |
| <b>Power unit</b>          |                      |              |           |                |           |              |      |                |      |      |      |      |       |
| Max. motor power           | kW                   | 16.4         |           | 26.7           |           | 40.9         |      | 50.7           |      |      |      |      |       |
| System pressure            | MPa                  | 17.5         |           | 17.5           |           | 17.5         |      | 17.5           |      |      |      |      |       |
| Hydraulic pump capacity    | L/min                | 112.5        |           | 172            |           | 220          |      | 275            |      |      |      |      |       |
| No. of heating zones       | unit                 | 4+1+1        |           | 5+1            |           | 5+1          |      | 5+1            |      |      |      |      |       |
| Heating power              | kW                   | 14.25        |           | 18.9           |           | 22.15        |      | 28.99          |      |      |      |      |       |
| Total power                | kW                   | 31.65        |           | 46.6           |           | 64.05        |      | 80.69          |      |      |      |      |       |
| Total current              | A                    | 43.3         |           | 63.7           |           | 87.6         |      | 110.3          |      |      |      |      |       |
| <b>General</b>             |                      |              |           |                |           |              |      |                |      |      |      |      |       |
| Machine weight             | Ton                  | 6.97         |           | 8.55           |           | 11.52        |      | 14.68          |      |      |      |      |       |
| Oil filling capacity       | L                    | 300          |           | 450            |           | 540          |      | 700            |      |      |      |      |       |
| Machine dimensions (L*W*H) | m                    | 5.6X1.41X2.1 |           | 6.07X1.46X2.19 |           | 6.6X1.6X2.27 |      | 7.74X1.76X2.28 |      |      |      |      |       |

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## Machine Dimensions

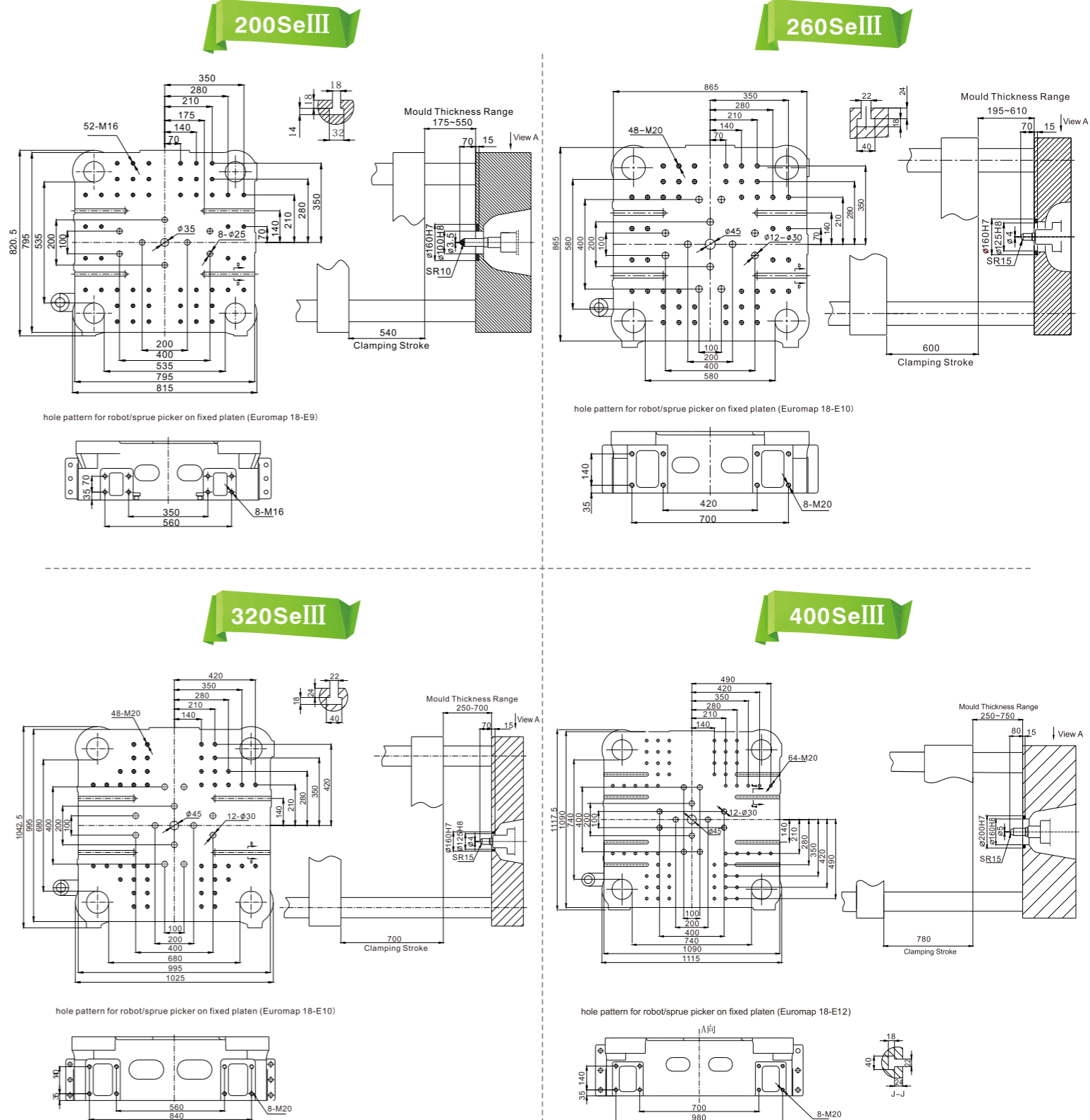
### 200SeIII-400SeIII



| Model    | A    | B    | C    | D    | E    | F    | G    | H   | I   | J   | K   |
|----------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 200SeIII | 1833 | 1645 | 2103 | 4753 | 5598 | 1364 | 1414 | 752 | 800 | 824 | 707 |
| 260SeIII | 1961 | 1757 | 2185 | 5030 | 6072 | 1417 | 1462 | 810 | 800 | 852 | 731 |
| 320SeIII | 2078 | 1884 | 2267 | 5575 | 6601 | 1517 | 1592 | 865 | 800 | 902 | 796 |
| 400SeIII | 2176 | 1923 | 2284 | 6780 | 7744 | 1783 | 1760 | 874 | 800 | 909 | 880 |

Remark: C-hopper height for reference only

## Platen/Nozzle Dimensions



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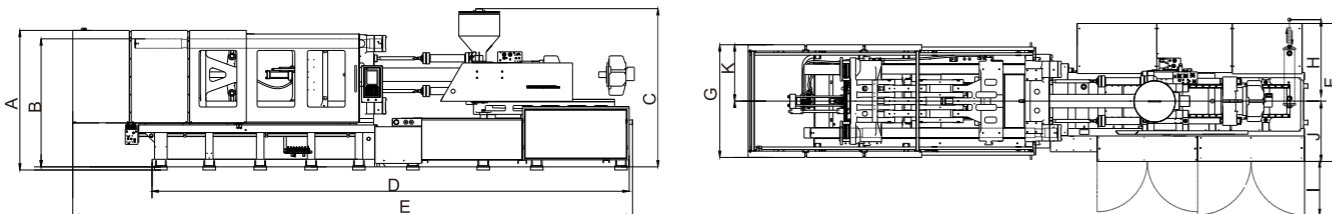
## Specifications

| ITEM                       | UNIT                 | 480SeIII  |                |       | 530SeIII  |           |       | 660SeIII  |                |       |
|----------------------------|----------------------|-----------|----------------|-------|-----------|-----------|-------|-----------|----------------|-------|
|                            |                      | 4800-3508 |                |       | 5300-4762 |           |       | 6600-4762 |                |       |
| <b>Injection unit</b>      |                      |           |                |       |           |           |       |           |                |       |
| Screw diameter             | mm                   | 70        | 80             | 94    | 80        | 90        | 105   | 80        | 90             | 105   |
| Theoretical shot volume    | cc                   | 1539      | 2011           | 2776  | 2212      | 2799      | 3810  | 2212      | 2799           | 3810  |
| Shot weight (PS)           | g                    | 1401      | 1830           | 2526  | 1991      | 2519      | 3429  | 1991      | 2519           | 3429  |
| Shot weight (PS)           | oz                   | 49.5      | 64.7           | 89.3  | 70.3      | 89.0      | 121.2 | 70.3      | 89.0           | 121.2 |
| Length/diameter ratio      | L/D                  | 24.2      | 21.2           | 18    | 23.6      | 21        | 18    | 23.6      | 21             | 18    |
| Injection pressure         | MPa                  | 228       | 174            | 126   | 215       | 170       | 125   | 215       | 170            | 125   |
| Injection rate             | cm <sup>3</sup> /sec | 352       | 460            | 635   | 477       | 603       | 821   | 521       | 660            | 898   |
| Injection stroke           | mm                   |           | 400            |       |           | 440       |       |           | 440            |       |
| Max. screw speed           | rpm                  |           | 170            |       |           | 148       |       |           | 161            |       |
| Plasticising capacity (PS) | g/s                  | 72.7      | 94.3           | 131.3 | 80.4      | 97.5      | 147.5 | 87.9      | 106.7          | 161.3 |
| Injection unit force       | Ton                  |           | 12             |       |           | 20.4      |       |           | 20.4           |       |
| Carriage stroke            | mm                   |           | 480            |       |           | 600       |       |           | 600            |       |
| <b>Clamping unit</b>       |                      |           |                |       |           |           |       |           |                |       |
| Clamping force             | Ton                  |           | 480            |       |           | 530       |       |           | 660            |       |
| Max. daylight              | mm                   |           | 1600           |       |           | 1700      |       |           | 1830           |       |
| Clamping stroke            | mm                   |           | 780            |       |           | 850       |       |           | 910            |       |
| Distance btwn. tie bars    | mm                   |           | 820x800        |       |           | 840x830   |       |           | 920x920        |       |
| Min. mould dimension       | mm                   |           | 570X560        |       |           | 580X580   |       |           | 645x645        |       |
| Mould thickness range      | mm                   |           | 300-820        |       |           | 300-850   |       |           | 350-920        |       |
| Ejector force              | Ton                  |           | 16.6           |       |           | 16.6      |       |           | 16.6           |       |
| Ejector stroke             | mm                   |           | 240            |       |           | 240       |       |           | 290            |       |
| No. of ejector pins        | unit                 |           | 13             |       |           | 17        |       |           | 21             |       |
| <b>Power unit</b>          |                      |           |                |       |           |           |       |           |                |       |
| Max. motor power           | kW                   |           | 50.7           |       |           | 71.2      |       |           | 67.1           |       |
| System pressure            | MPa                  |           | 17.5           |       |           | 17.5      |       |           | 17.5           |       |
| Hydraulic pump capacity    | L/min                |           | 275            |       |           | 352       |       |           | 385            |       |
| No. of heating zones       | unit                 |           | 5+1            |       |           | 5+1       |       |           | 5+1            |       |
| Heating power              | kW                   |           | 35.04          |       |           | 35.73     |       |           | 35.73          |       |
| Total power                | kW                   |           | 86.74          |       |           | 107.93    |       |           | 103.83         |       |
| Total current              | A                    |           | 118.6          |       |           | 147.6     |       |           | 126.2          |       |
| <b>General</b>             |                      |           |                |       |           |           |       |           |                |       |
| Machine weight             | Ton                  |           | 16.72          |       |           | 23        |       |           | 26             |       |
| Oil filling capacity       | L                    |           | 720            |       |           | 775       |       |           | 1140           |       |
| Machine dimensions (L*W*H) | m                    |           | 8.02X1.87X2.34 |       |           | 9X1.9X2.5 |       |           | 9.16X1.94X2.55 |       |

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## Machine Dimensions

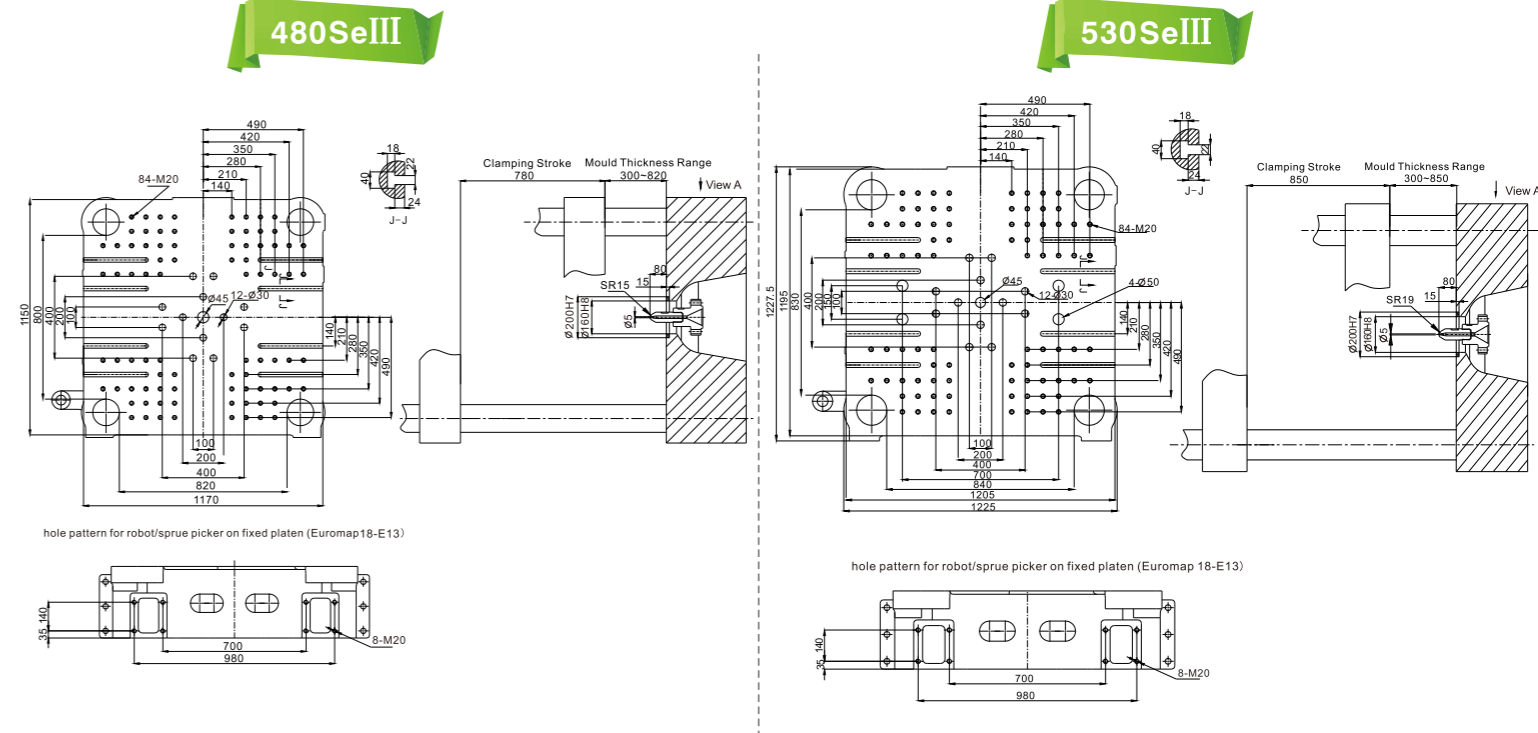
### 480SeIII-660SeIII



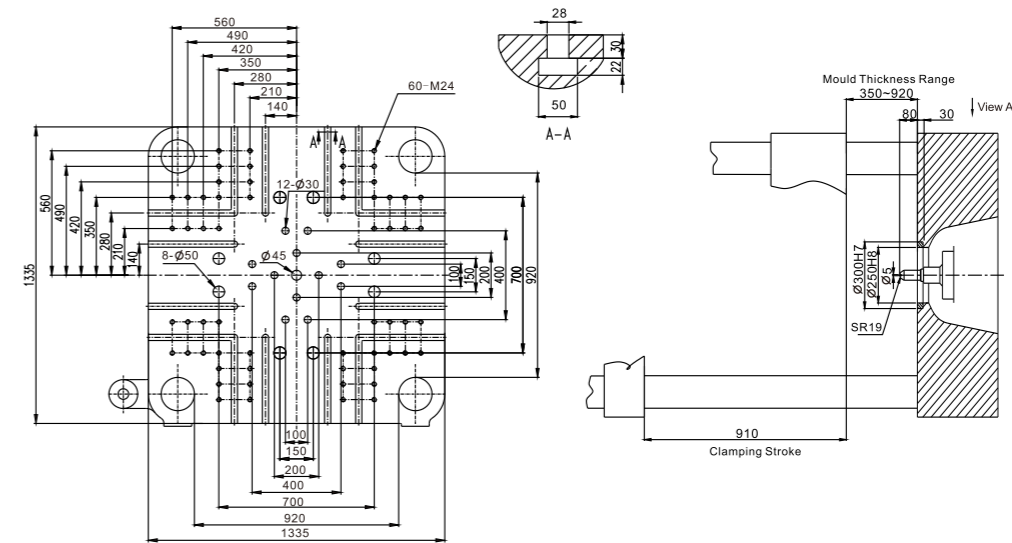
| Model    | A    | B    | C    | D    | E    | F    | G    | H    | I   | J   | K   |
|----------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 480SeIII | 2246 | 1985 | 2336 | 7006 | 8025 | 1797 | 1874 | 855  | 800 | 942 | 937 |
| 530SeIII | 2244 | 2005 | 2495 | 7846 | 8995 | 1809 | 1900 | 865  | 800 | 945 | 950 |
| 660SeIII | 2280 | 2125 | 2545 | 7783 | 9157 | 2193 | 1942 | 1420 | 850 | 960 | 971 |

Remark: C-hopper height for reference only

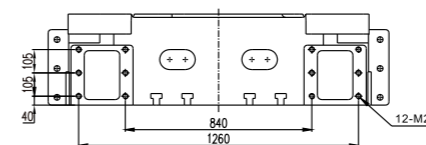
## Platen/Nozzle Dimensions



### 660SeIII



hole pattern for robot/sprue picker on fixed platen (Euromap 18-E15)





# SeIII series (60-1800Ton)

The benchmark for high-performance injection moulding machine



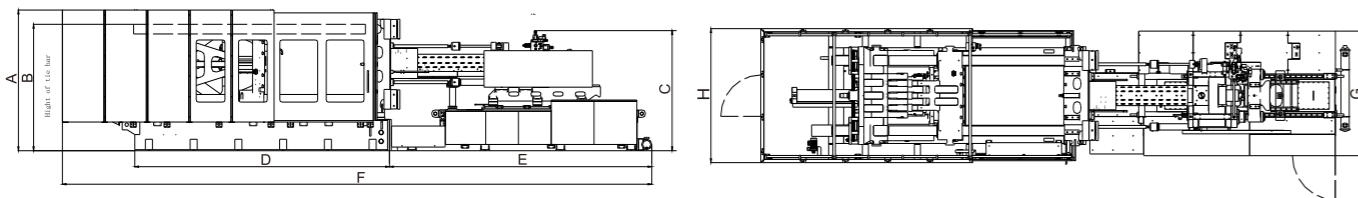
## Specifications

| ITEM                       | UNIT                 | 750SeIII |                |      | 850SeIII        |      |                 | 1000SeIII |      |      |      |
|----------------------------|----------------------|----------|----------------|------|-----------------|------|-----------------|-----------|------|------|------|
| <b>Injection unit</b>      |                      |          |                |      |                 |      |                 |           |      |      |      |
| Screw diameter             | mm                   | 90       | 100            | 110  | 90              | 100  | 110             | 100       | 110  | 120  | 130  |
| Theoretical shot volume    | cc                   | 2990     | 3691           | 4467 | 2990            | 3691 | 4467            | 4163      | 5037 | 5994 | 7035 |
| Shot weight (PS)           | g                    | 2721     | 3359           | 4065 | 2721            | 3359 | 4065            | 3788      | 4583 | 5455 | 6402 |
| Shot weight (PS)           | oz                   | 96       | 119            | 144  | 96              | 119  | 144             | 134       | 162  | 193  | 226  |
| Length/diameter ratio      | L/D                  | 22.6     | 20.0           | 18.0 | 22.6            | 20.0 | 18.0            | 24.2      | 22   | 20.2 | 18.6 |
| Injection pressure         | MPa                  | 212      | 171            | 142  | 212             | 171  | 142             | 216       | 178  | 150  | 128  |
| Injection rate             | cm <sup>3</sup> /sec | 589      | 728            | 880  | 589             | 728  | 880             | 670       | 810  | 964  | 1132 |
| Plasticising capacity (PS) | g/s                  | 73       | 100            | 121  | 73              | 100  | 121             | 106       | 129  | 124  | 146  |
| Injection stroke           | mm                   |          | 470            |      | 470             |      | 530             |           |      |      |      |
| Max. screw speed           | rpm                  |          | 124            |      | 124             |      | 115             |           | 115  |      | 93   |
| Injection unit force       | Ton                  |          | 19.8           |      | 19.8            |      | 20              |           |      |      |      |
| Carriage stroke            | mm                   |          | 600            |      | 600             |      | 700             |           |      |      |      |
| <b>Clamping unit</b>       |                      |          |                |      |                 |      |                 |           |      |      |      |
| Clamping force             | Ton                  |          | 750            |      | 850             |      | 1000            |           |      |      |      |
| Max. daylight              | mm                   |          | 2050           |      | 2200            |      | 2380            |           |      |      |      |
| Clamping stroke            | mm                   |          | 1025           |      | 1100            |      | 1220            |           |      |      |      |
| Distance btwn. tie bars    | mm                   |          | 1000x1000      |      | 1060x1060       |      | 1160x1160       |           |      |      |      |
| Min. mould dimension       | mm                   |          | 700x700        |      | 740x740         |      | 780x780         |           |      |      |      |
| Mould thickness range      | mm                   |          | 350~1025       |      | 450~1100        |      | 450~1160        |           |      |      |      |
| Ejector force              | Ton                  |          | 25             |      | 25              |      | 25              |           |      |      |      |
| Ejector stroke             | mm                   |          | 350            |      | 350             |      | 320             |           |      |      |      |
| No. of ejector pins        | unit                 |          | 21             |      | 21              |      | 21              |           |      |      |      |
| <b>Power unit</b>          |                      |          |                |      |                 |      |                 |           |      |      |      |
| Max. motor power           | kW                   |          | 83.8           |      | 83.8            |      | 94.2            |           |      |      |      |
| System pressure            | MPa                  |          | 17             |      | 17              |      | 17.5            |           |      |      |      |
| Hydraulic pump capacity    | L/min                |          | 440            |      | 440             |      | 495             |           |      |      |      |
| No. of heating zones       | unit                 |          | 5+1            |      | 5+1             |      | 5+1             |           |      |      |      |
| Heating power              | kW                   |          | 53             |      | 53              |      | 67              |           |      |      |      |
| Total power                | kW                   |          | 137.8          |      | 137.8           |      | 162.2           |           |      |      |      |
| Total current              | A                    |          | 167.5          |      | 167.5           |      | 197             |           |      |      |      |
| <b>General</b>             |                      |          |                |      |                 |      |                 |           |      |      |      |
| Machine weight             | Ton                  |          | 39.1           |      | 43.0            |      | 47              |           |      |      |      |
| Oil filling capacity       | L                    |          | 1100           |      | 1100            |      | 1200            |           |      |      |      |
| Machine dimensions (L*W*H) | m                    |          | 10.19X2.3X2.54 |      | 10.52X2.34X2.42 |      | 11.70X2.57X2.70 |           |      |      |      |

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## Machine Dimensions

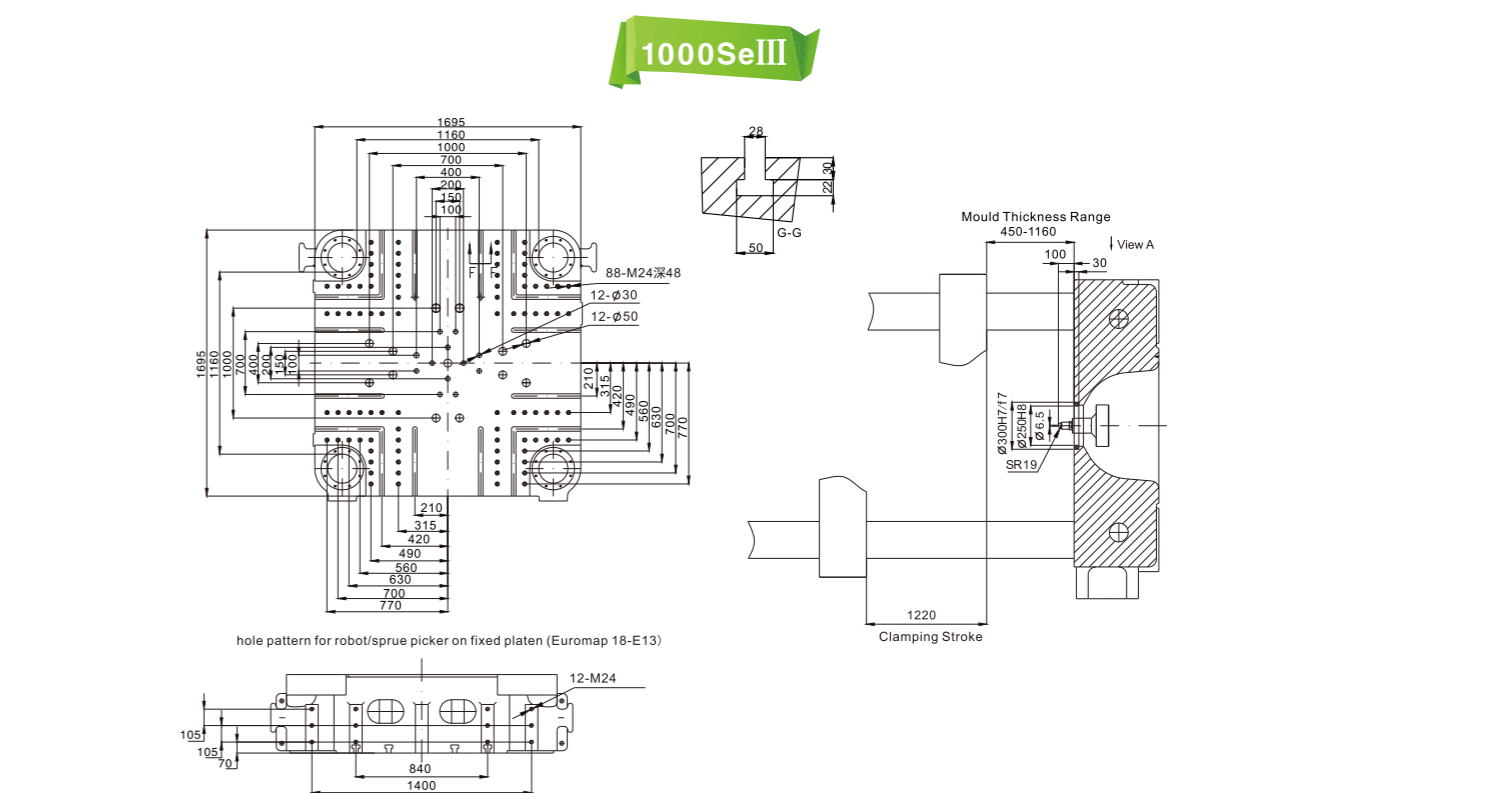
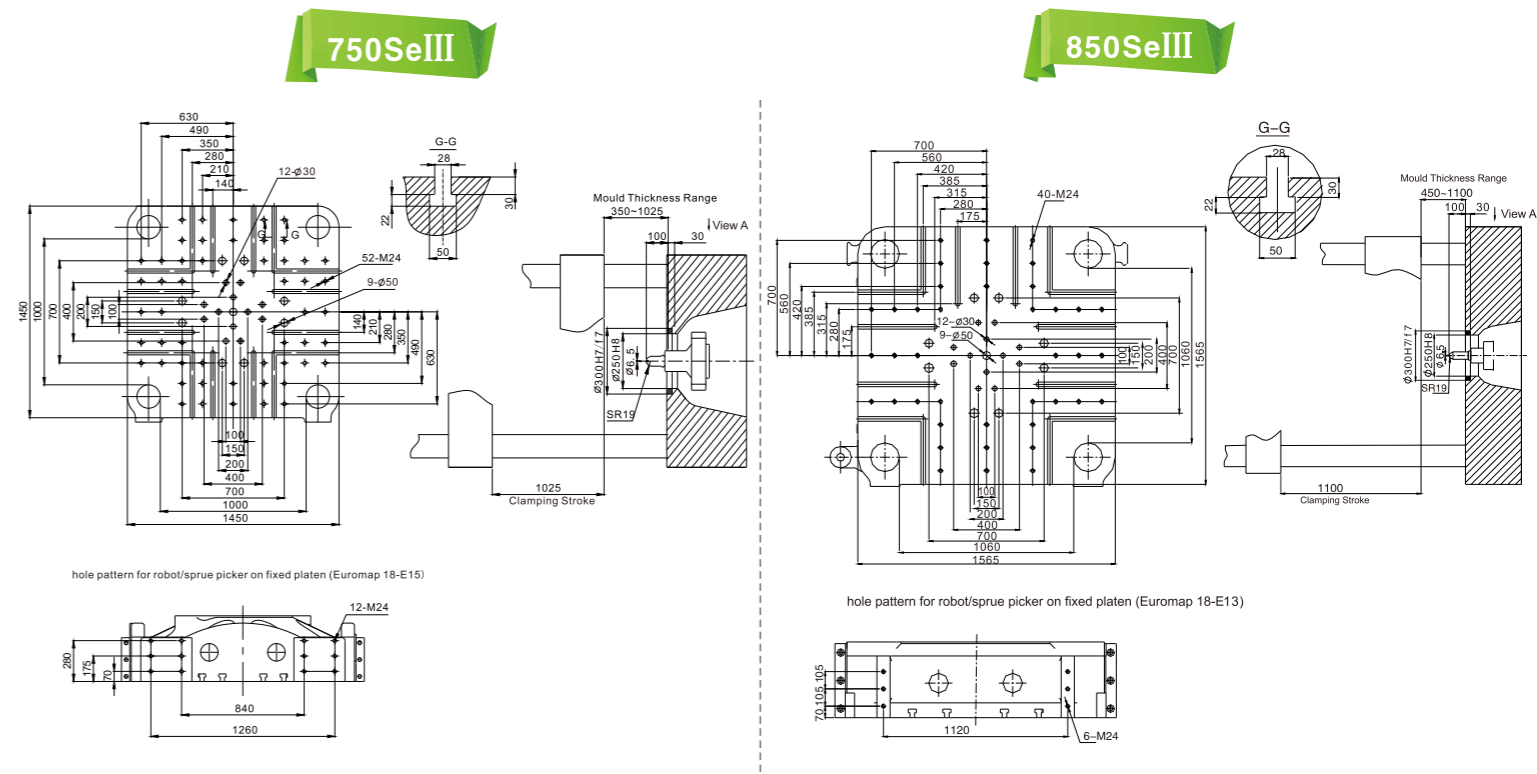
### 750SeIII-1000SeIII



| Model     | A    | B    | C    | D    | E    | F     | G    | H    |
|-----------|------|------|------|------|------|-------|------|------|
| 750SeIII  | 2539 | 2227 | 2635 | 4318 | 4497 | 10192 | 1410 | 2295 |
| 850SeIII  | 2420 | 2300 | 2635 | 4668 | 4497 | 10514 | 1410 | 2340 |
| 1000SeIII | 2697 | 2424 | 2303 | 5054 | 5206 | 11697 | 2569 | 2388 |

Remark: C-hopper height for reference only

## Platen/Nozzle Dimensions



# SeIII series (60-1800Ton)

The benchmark for high-performance injection moulding machine



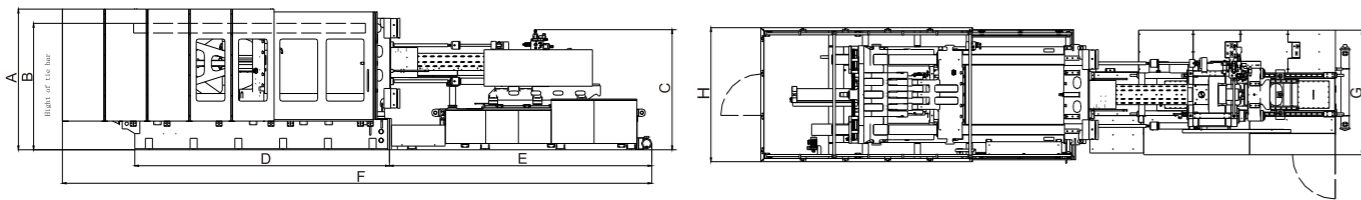
## Specifications

| ITEM                       | UNIT                 | 1200SeIII       |      |      |      | 1400SeIII       |      |      |      | 1800SeIII       |       |       |  |
|----------------------------|----------------------|-----------------|------|------|------|-----------------|------|------|------|-----------------|-------|-------|--|
| <b>Injection unit</b>      |                      |                 |      |      |      |                 |      |      |      |                 |       |       |  |
| Screw diameter             | mm                   | 100             | 110  | 120  | 130  | 110             | 120  | 130  | 140  | 135             | 145   | 160   |  |
| Theoretical shot volume    | cc                   | 4163            | 5037 | 5994 | 7035 | 5417            | 6447 | 7566 | 8774 | 9232            | 10651 | 12969 |  |
| Shot weight (PS)           | g                    | 3788            | 4583 | 5455 | 6402 | 4929            | 5866 | 6885 | 7985 | 8402            | 9692  | 11801 |  |
| Shot weight (PS)           | oz                   | 134             | 162  | 193  | 226  | 174             | 207  | 243  | 282  | 297             | 342   | 417   |  |
| Length/diameter ratio      | L/D                  | 24.2            | 22   | 20.2 | 18.6 | 24              | 22   | 20.3 | 18.9 | 21.1            | 19.7  | 17.8  |  |
| Injection pressure         | MPa                  | 216             | 178  | 150  | 128  | 204             | 171  | 146  | 126  | 187             | 162   | 133   |  |
| Injection rate             | cm <sup>3</sup> /sec | 744             | 900  | 1071 | 1257 | 897             | 1067 | 1253 | 1453 | 1053            | 1215  | 1480  |  |
| Plasticising capacity (PS) | g/s                  | 117             | 143  | 138  | 162  | 118             | 140  | 152  | 176  | 189             | 225   | 235   |  |
| Injection stroke           | mm                   | 530             |      |      |      | 570             |      |      |      | 645             |       |       |  |
| Max. screw speed           | rpm                  | 128             | 128  | 104  | 104  | 118             | 118  | 92   | 92   | 105             |       |       |  |
| Injection unit force       | Ton                  | 20              |      |      |      | 20              |      |      |      | 28.8            |       |       |  |
| Carriage stroke            | mm                   | 700             |      |      |      | 750             |      |      |      | 850             |       |       |  |
| <b>Clamping unit</b>       |                      |                 |      |      |      |                 |      |      |      |                 |       |       |  |
| Clamping force             | Ton                  | 1200            |      |      |      | 1400            |      |      |      | 1800            |       |       |  |
| Max. daylight              | mm                   | 2550            |      |      |      | 2900            |      |      |      | 3000            |       |       |  |
| Clamping stroke            | mm                   | 1300            |      |      |      | 1500            |      |      |      | 1500            |       |       |  |
| Distance btwn. tie bars    | mm                   | 1250x1250       |      |      |      | 1450x1350       |      |      |      | 1600x1400       |       |       |  |
| Min. mould dimension       | mm                   | 875x875         |      |      |      | 980x980         |      |      |      | 1100x980        |       |       |  |
| Mould thickness range      | mm                   | 500~1250        |      |      |      | 650~1400        |      |      |      | 700~1500        |       |       |  |
| Ejector force              | Ton                  | 25              |      |      |      | 33              |      |      |      | 33              |       |       |  |
| Ejector stroke             | mm                   | 320             |      |      |      | 350             |      |      |      | 380             |       |       |  |
| No. of ejector pins        | unit                 | 21              |      |      |      | 25              |      |      |      | 33              |       |       |  |
| <b>Power unit</b>          |                      |                 |      |      |      |                 |      |      |      |                 |       |       |  |
| Max. motor power           | kW                   | 102.6           |      |      |      | 119.1           |      |      |      | 131.9           |       |       |  |
| System pressure            | MPa                  | 17.5            |      |      |      | 17.5            |      |      |      | 17              |       |       |  |
| Hydraulic pump capacity    | L/min                | 550             |      |      |      | 627             |      |      |      | 715             |       |       |  |
| No. of heating zones       | unit                 | 5+1             |      |      |      | 5+1             |      |      |      | 5+1             |       |       |  |
| Heating power              | kW                   | 67              |      |      |      | 83              |      |      |      | 91              |       |       |  |
| Total power                | kW                   | 170.6           |      |      |      | 203.1           |      |      |      | 223.9           |       |       |  |
| Total current              | A                    | 207             |      |      |      | 247             |      |      |      | 272.2           |       |       |  |
| <b>General</b>             |                      |                 |      |      |      |                 |      |      |      |                 |       |       |  |
| Machine weight             | Ton                  | 60              |      |      |      | 88              |      |      |      | 125.0           |       |       |  |
| Oil filling capacity       | L                    | 1200            |      |      |      | 1400            |      |      |      | 2000            |       |       |  |
| Machine dimensions (L*W*H) | m                    | 12.06X2.74X2.87 |      |      |      | 13.57X3.04X3.06 |      |      |      | 13.44X3.21X2.81 |       |       |  |

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## Machine Dimensions

### 1200SeIII-1800SeIII

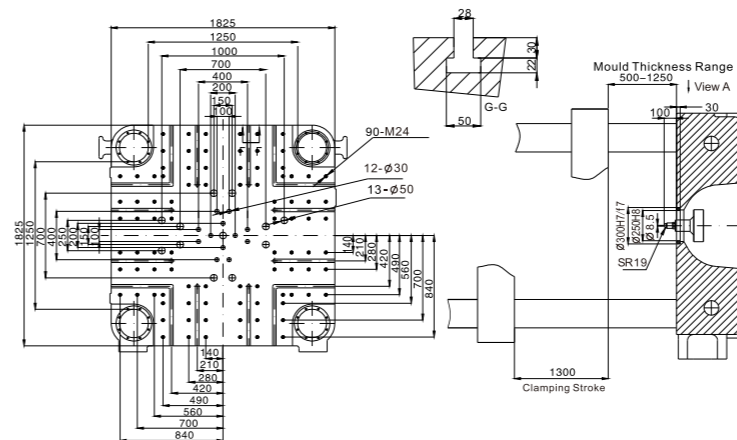


| Model     | A    | B    | C    | D    | E    | F     | G    | H    |
|-----------|------|------|------|------|------|-------|------|------|
| 1200SeIII | 2865 | 2528 | 2342 | 5338 | 5206 | 12058 | 2746 | 2418 |
| 1400SeIII | 3064 | 2698 | 2457 | 6088 | 5666 | 13570 | 3036 | 2418 |
| 1800SeIII | 2808 | 2720 | 3200 | 6340 | 5360 | 13439 | 1340 | 3210 |

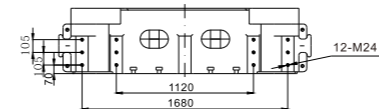
Remark: C-hopper height for reference only

## Platen/Nozzle Dimensions

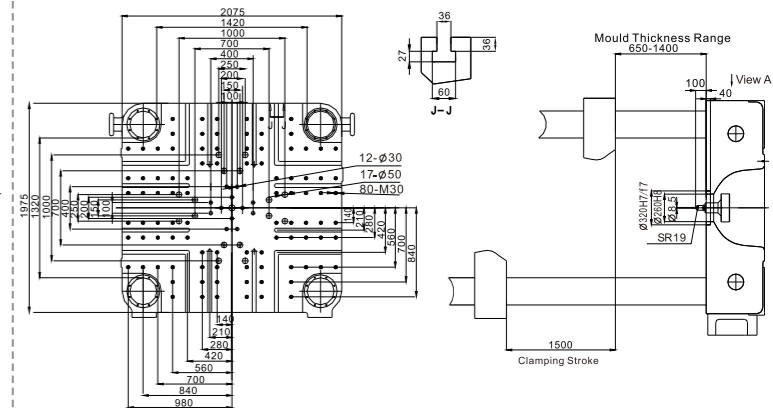
### 1200SeIII



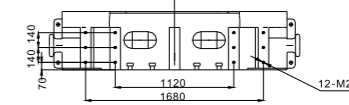
hole pattern for robot/sprue picker on fixed platen (Euromap 18-E13)



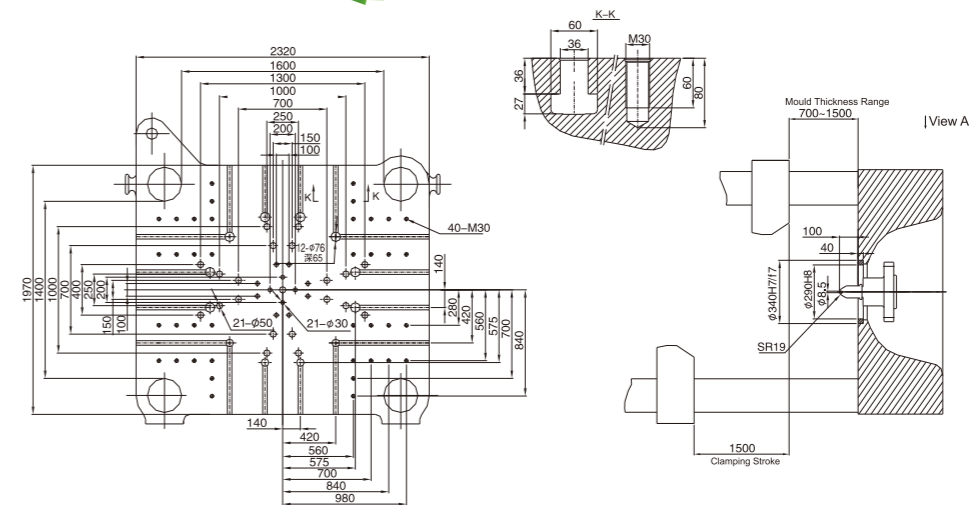
### 1400SeIII



hole pattern for robot/sprue picker on fixed platen (Euromap 18-E13)



### 1800SeIII



hole pattern for robot/sprue picker on fixed platen

